

15 January 1964

Page 1

RESUME OF PRESENT STATUS

Before turning to the more detailed discussions a brief resume of where we stand now is in order:

- 1) Edge scanning is a promising technique for obtaining a quantitative, objective measure of the image quality but is still in a research stage and far from a useful and reliable tool.
- 2) Photographic JEMS are attractive both for diagnostic analyses of the images obtained and for establishing optimum users' criteria for the photography. A system has been constructed and with further evolution may soon be a practical and useful tool. This is being pushed and is hoped to provide a useful standard of comparison for the photography (soon-time scale).
- 3) The atmospheric haze causes sharp contrast reductions.
- 4) In order to answer if C/M is working up to par, a series of engineering passes over known edges and standard resolution targets is required in known weather conditions so that haze effects may be removed. From these the transfer function can be obtained as desired for design comparison.
- 5) Only then can the curve be confidently interpreted or rejected. Meanwhile MIP and RES measures conflict and the relation of either with resolution or design system performance is a mystery.

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15 January 1964
Page 2

- 6) In-flight measurements are urgently needed to determine in-orbit environments so that primary causes for image degradation, if any, are firmly established and can be isolated.
- 7) Further weather analysis in connection with engineering passes and using airborne cameras are urged.
- 8) Exotic schemes and thereafter?

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